



Investigations on the properties of a two-dimensional nanopatterned metallic film

Submitted by Mihaela Girtan on Mon, 02/20/2017 - 16:44

Titre	Investigations on the properties of a two-dimensional nanopatterned metallic film
Type de publication	Article de revue
Auteur	Breazu, C. [1], Preda, N. [2], Socol, Marcela [3], Stanculescu, Florin [4], Matei, E. [5], Stavarahe, I. [6], Iordache, G. [7], Girtan, Mihaela [8], Rasoga, Oana [9], Stanculescu, Anca [10]
Type	Article scientifique dans une revue à comité de lecture
Année	2016
Langue	Anglais
Date	Oct. Déc. 2016
Numéro	4
Pagination	1213-1229
Volume	11
Titre de la revue	Digest Journal of Nanomaterials and Biostructures
ISSN	1842-3582
Mots-clés	Aluminum nanostructures [11], nanopatterning [12], Optical propertie [13], Surface plasmons [14], UV - Nanoimprint Lithography [15]
Résumé en anglais	This paper presents some investigations of the effect of nanopatterning on the properties of aluminum layer deposited by sputtering. UV-Nanoimprint Lithography technique has been used for the realization of a 2D array of nanostructures (pillars) in aluminum film characterized by cylindrical shape and the following structural parameters: diameter between 400 nm and 490 nm, depth between 320 nm and 420 nm and periodicity of 1.1 μ m, which have been revealed by SEM and AFM measurements. The UV-Vis transmission, reflection and photoluminescence measurements have evidenced the effect of the nanopatterning on the optical properties of the Al layer.
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